

L Number	Hits	Search Text	DB	Time stamp
2	20	(ERL ERLE channel\$1gain channel adj gain adj estimat\$3) with (ring\$1back ring adj back periodic tone)	USPAT	2003/10/29 08:41
34	99	455/570.ccls.	USPAT	2003/10/29 09:40
35	47	379/392.01.ccls.	USPAT	2003/10/29 09:46
36	141	455/570.ccls. 379/392.01.ccls.	USPAT	2003/10/29 09:46
37	5	(455/570.ccls. 379/392.01.ccls.) and (ring\$1back ring adj back)	USPAT	2003/10/29 10:28
38	4	("4493950" "4982425" "5014294" "5054061").PN.	USPAT	2003/10/29 10:07
39	3	5379450.URPN.	USPAT	2003/10/29 10:07
40	144	(noise adj detect\$3) same (ring\$1back ring adj back DTMF ton\$2 periodic)	USPAT	2003/10/29 10:28
41	70	(noise adj detect\$3) with (ring\$1back ring adj back DTMF ton\$2 periodic)	USPAT	2003/10/29 10:35
42	4	(noise adj detect\$3) with (ring\$1back DTMF)	USPAT	2003/10/29 10:36
44	0	(noise adj detect\$3) same (ring\$1back ring adj back)	USPAT	2003/10/29 10:37
45	6	(noise adj detect\$3) and (ring\$1back ring adj back)	USPAT	2003/10/29 10:43
46	13	(comfort adj noise) and (ring\$1back ring adj back)	USPAT	2003/10/29 11:00
47	24	("4285060" "4617676" "5119322" "5329587" "5339384" "5353346" "5388127" "5454015" "5598468" "5694517" "5790641" "5793498" "5818929" "5852630" "5859671" "5535271" "5970441" "5987061" "6023470" "6028679" "6125177" "6141341" "6233226" "6259677").PN.	USPAT	2003/10/29 10:58
48	23	(comfort adj noise) with (updat\$3)	USPAT	2003/10/29 11:26
49	112	379/406\$3.ccls. and (VAD voice near3 detect\$3)	USPAT	2003/10/29 11:27
50	49	(379/406\$3.ccls. and (VAD voice near3 detect\$3)) and (double\$1talk double adj talk)	USPAT	2003/10/29 11:28
-	3	("5689556" "5588053" "5483579").pn.	USPAT	2003/10/28 12:45
-	163	379/406.04.ccls.	USPAT	2003/10/16 08:40
-	1	5450484.pn.	USPAT	2003/10/16 08:57
-	1	379/406.04.ccls. and (ring\$1back ring adj back)	USPAT	2003/10/16 09:02
-	3	379/406.04.ccls. and (progress\$1tone\$1 progress adj tone\$1)	USPAT	2003/10/16 09:12
-	16	("4633046" "4823382" "4912758" "4918727" "4998241" "5247512" "5263020" "5295136" "5307405" "5319702" "5343521" "5351291" "5390244" "5428681" "5455819" "5546459").PN.	USPAT	2003/10/16 09:04
-	7	5592548.URPN.	USPAT	2003/10/16 09:04
-	99	(ring\$1back ring adj back progress\$1tone\$1 progress adj tone\$1) and ((adapt\$4 updat\$4 refresh\$4) with (threshold compar\$4))	USPAT	2003/10/16 09:22
-	25	(ring\$1back ring adj back progress\$1tone\$1 progress adj tone\$1) and ((adapt\$4) with (threshold))	USPAT	2003/10/16 11:42
-	12	(ring\$1back ring adj back progress\$1tone\$1 progress adj tone\$1) and ((adapt\$4) near2 (threshold))	USPAT	2003/10/16 09:41

Search History 10/29/03 12:42:00 PM Page 1

-	1	4672669.pn.	USPAT	2003/10/16 09:48
-	56	(tone\$1 narrow\$1band narrow adj band) near2 (detect\$3) and (adapt\$4 near2 threshold)	USPAT	2003/10/16 10:35
-	0	6580792.URPN.	USPAT	2003/10/16 11:41
-	6	("4689760" "5163050" "5809133" "5937059" "6046977" "6111949").PN.	USPAT	2003/10/16 09:55
-	340	379/386.ccls.	USPAT	2003/10/16 10:46
-	14	379/386.ccls. and ((ring\$1back ring adj back) near3 detect\$4)	USPAT	2003/10/16 10:46
-	49	379/386.ccls. and (ring\$1back ring adj back)	USPAT	2003/10/16 10:46
-	4	("5588053" "5644634" "5809133" "6269093").PN.	USPAT	2003/10/16 11:58
-	16	("4177521" "4244376" "4327440" "4777653" "5123031" "5214708" "5251263" "5260974" "5479444" "5511068" "5675613" "5684830" "5720039" "5742591" "5920834" "5960389").PN.	USPAT	2003/10/16 12:06
-	382	379/377\$3.ccls.	USPAT	2003/10/16 12:13
-	33	379/377\$3.ccls. and (ring\$1back ring adj back progress\$1tone\$1 progress adj tone\$1)	USPAT	2003/10/16 13:03
-	2738	ring\$1back ring adj back	USPAT	2003/10/17 11:51
-	33	(ring\$1back ring adj back) and ((dynamic updat\$4 adapt\$4) with (threshold))	USPAT	2003/10/16 13:38
-	1	5,588,053.pn.	USPAT	2003/10/16 13:06
-	27	4696031.URPN.	USPAT	2003/10/16 13:24
-	42	370/287.ccls.	USPAT	2003/10/16 14:32
-	16	("4426729" "4584441" "4658420" "4912758" "5029204" "5321745" "5325425" "5390244" "5408529" "5420921" "5428680" "5428681" "5519744" "5528663" "5588052" "5592548").PN.	USPAT	2003/10/16 13:54
-	5	5689556.URPN.	USPAT	2003/10/16 13:54
-	5668	ring\$1back ring adj back call\$1progress call adj progress progress\$1tone\$1 progress adj tone\$1	USPAT	2003/10/16 14:54
-	3986	(ring\$1back ring adj back call\$1progress call adj progress progress\$1tone\$1 progress adj tone\$1) and (detect\$4)	USPAT	2003/10/16 14:55
-	60	((ring\$1back ring adj back call\$1progress call adj progress progress\$1tone\$1 progress adj tone\$1) and (detect\$4)) and ((dynamic adapt\$4) with (threshold\$4))	USPAT	2003/10/16 14:55
-	2738	ring\$1back ring adj back	USPAT	2003/10/17 11:51
-	726	(ring\$1back ring adj back) and (adapt\$4 with (algorithm\$1 method\$1 procedure\$1 practice\$1 device system apparatus))	USPAT	2003/10/17 12:07
-	446	(ring\$1back ring adj back) and (adapt\$4 near3 (algorithm\$1 method\$1 fprocedure\$1 practice\$1 device system apparatus))	USPAT	2003/10/17 11:53
-	357	(ring\$1back ring adj back) and (adapt\$4 near2 (algorithm\$1 method\$1 fprocedure\$1 practice\$1 device system apparatus))	USPAT	2003/10/17 11:54
-	239	((ring\$1back ring adj back) and (adapt\$4 near2 (algorithm\$1 method\$1 fprocedure\$1 practice\$1 device system apparatus))) and ("379" "455" "370").clas.	USPAT	2003/10/17 12:06

-	17	(ring\$1back ring adj back) with (adapt\$4 with (algorithm\$1 method\$1 procedure\$1 practice\$1 device system apparatus))	USPAT	2003/10/17 12:15
-	39	(ring\$1back ring adj back) and (adapt\$4 with (algorithm\$1))	USPAT	2003/10/17 12:24
-	42	(ring\$1back ring adj back) and (voice adj activity noise adj estimat\$3 channel adj gain noise adj sup\$1res\$4)	USPAT	2003/10/17 13:09
-	8	(ring\$1back ring adj back) and (noise adj estimat\$3 channel adj gain noise adj sup\$1res\$4)	USPAT	2003/10/17 14:37
-	1	5732390.pn.	USPAT	2003/10/17 13:43
-	1	5450484.pn.	USPAT	2003/10/17 14:06
-	338	(ring\$1back ring adj back) and ((voice speech) near3 (detect\$4))	USPAT	2003/10/17 14:09
-	62	(ring\$1back ring adj back) same ((voice speech) near3 (detect\$4))	USPAT	2003/10/17 14:09
-	1	5732390.pn.	USPAT	2003/10/27 12:05
-	5	("4628529" "4817157" "5111454" "5146504" "5432859").PN.	USPAT	2003/10/27 12:04
-	7	5732390.URPN.	USPAT	2003/10/27 12:04
-	12	((("4628529" "4817157" "5111454" "5146504" "5432859").PN.) 5732390.URPN.	USPAT	2003/10/27 12:05
-	1	((("4628529" "4817157" "5111454" "5146504" "5432859").PN.) 5732390.URPN.) and (periodic tone ring\$2 ring\$1back ring adj back)	USPAT	2003/10/27 12:13
-	14	379.clas. and (comfort near4 noise) and (tone near4 detect\$4 periodic near3 signal ring\$1back ring adj back)	USPAT	2003/10/27 12:51
-	38	(comfort near4 noise) and (tone near4 detect\$4 periodic near3 signal ring\$1back ring adj back)	USPAT	2003/10/29 09:39
-	30	((ring\$1back ring adj back) with (detect\$4 analy\$3)) and ((voice speech) with (detect\$4 analy\$3)) and (noise) and (echo)	USPAT	2003/10/27 13:42
-	182	379/406.04.ccls. 370/287.ccls.	USPAT	2003/10/27 13:43
-	1	(379/406.04.ccls. 370/287.ccls.) and (ring\$1back ring adj back)	USPAT	2003/10/27 13:48
-	18	(379/406.04.ccls. 370/287.ccls.) and (noise near5 (estimat\$3 suppress\$3))	USPAT	2003/10/27 13:54
-	75	(379/406.04.ccls. 370/287.ccls.) and (ton\$2 period\$2)	USPAT	2003/10/27 13:55
-	44	((379/406.04.ccls. 370/287.ccls.) and (ton\$2 period\$2)) and (noise)	USPAT	2003/10/27 14:10
-	3398	((disabl\$3 inhibit\$3 prevent\$3 stop\$4) with (noise)) same (tone ring\$1back ring adj back period\$2)	USPAT	2003/10/27 14:11
-	106	((disabl\$3 inhibit\$3 prevent\$3 stop\$4) with (noise near5 (estimat\$3 suppress\$4))) same (tone ring\$1back ring adj back period\$2)	USPAT	2003/10/27 14:12
-	696	((disabl\$3 inhibit\$3 prevent\$3 stop\$4) with (noise)) same (tone ring\$1back ring adj back periodic)	USPAT	2003/10/27 14:20
-	235	((disabl\$3 inhibit\$3 prevent\$3 stop\$4) with (noise)) same (tone ring\$1back ring adj back periodic) and telephone	USPAT	2003/10/27 14:26
-	83	(noise near3 threshold) with (periodic tone ring\$1back ring adj back DTMF dual\$1tone dual adj tone)	USPAT	2003/10/27 14:42
-	481	(noise adj (suppress\$3 estimat\$3)) with (disabl\$4 stop\$4 inhibit\$4 block\$4)	USPAT	2003/10/27 14:44
-	4	((noise adj (suppress\$3 estimat\$3)) with (disabl\$4 stop\$4 inhibit\$4 block\$4)) with (tone periodic)	USPAT	2003/10/27 14:45

-	23	("4351982" "4423289" "4454609" "4628529" "4630304" "4630305" "4658426" "4769847" "5012519" "5285165" "5400409" "5425105" "5432859" "5485524" "5533118" "5610991" "5619524" "5632003" "5706395" "5748725" "5806025" "6263307" "6377919").PN.	USPAT	2003/10/27 15:15
-	1	6591234.pn.	USPAT	2003/10/28 12:45
-	0	6591234.URPN.	USPAT	2003/10/28 12:45
-	23	("4351982" "4423289" "4454609" "4628529" "4630304" "4630305" "4658426" "4769847" "5012519" "5285165" "5400409" "5425105" "5432859" "5485524" "5533118" "5610991" "5619524" "5632003" "5706395" "5748725" "5806025" "6263307" "6377919").PN.	USPAT	2003/10/28 12:45
-	11	((("4351982" "4423289" "4454609" "4628529" "4630304" "4630305" "4658426" "4769847" "5012519" "5285165" "5400409" "5425105" "5432859" "5485524" "5533118" "5610991" "5619524" "5632003" "5706395" "5748725" "5806025" "6263307" "6377919").PN.) and (periodic tone ring\$1back ring adj back)	USPAT	2003/10/28 13:43
-	17	(residual near3 echo) with (by\$1pass by adj pass disabl\$4)	USPAT	2003/10/28 13:49
-	7	(residual near3 echo) same (ring\$1back ring adj back periodic)	USPAT	2003/10/28 13:55
-	14	(residual near3 echo) same (tone)	USPAT	2003/10/28 14:05
-	1046	(non\$1linear non adj linear nlp residual near3 echo) same (tone)	USPAT	2003/10/28 14:07
-	16	(non\$1linear non adj linear nlp residual near3 echo) same (ring\$1back ring adj back)	USPAT	2003/10/28 14:09
-	217	(non\$1linear non adj linear nlp residual near3 echo) same (periodic near3 (signal tone))	USPAT	2003/10/28 14:10
-	6	((non\$1linear non adj linear nlp residual near3 echo) near5 echo) same (periodic near3 (signal tone))	USPAT	2003/10/28 14:11
-	266	(non\$1linear non adj linear nlp residual near3 echo) with (disabl\$4 by\$1pass by adj pass)	USPAT	2003/10/28 14:16
-	770	(line network) near4 (echo near3 cancel\$6)	USPAT	2003/10/28 14:17
-	30	((line network) near4 (echo near3 cancel\$6)) same (nlp non\$1linear non adj linear)	USPAT	2003/10/28 14:48
-	6	(nlp non\$1linear non adj linear) with (echo) and (ring\$1back ring adj back)	USPAT	2003/10/28 14:49
-	9	(ring\$1back ring adj back) same (microphone with (disabl\$5 mute muting voice adj switch\$3))	USPAT	2003/10/29 09:25
-	2075	(noise near3 (suppress\$3 detect\$3 eliminat\$3)) with (disabl\$4 block\$3 stop\$4 kill\$3)	USPAT	2003/10/28 15:17
-	99	((noise near3 (suppress\$3 detect\$3 eliminat\$3)) with (disabl\$4 block\$3 stop\$4 kill\$3)) and (379.clas. 370.clas.)	USPAT	2003/10/28 15:19
-	1	(input near5 (greater beyond above) near5 threshold) with (noise) with (disabl\$4)	USPAT	2003/10/28 15:24
-	1	(input near5 (greater beyond above) near5 threshold) with (noise) with (disabl\$4 updat\$4)	USPAT	2003/10/28 15:24

-	2	(input with (greater beyond above) with threshold) with (noise) with (disabl\$4 updat\$4)	USPAT	2003/10/28 15:27
-	38	(input with (greater beyond above) with threshold) same (noise) same (disabl\$4 updat\$4)	USPAT	2003/10/29 09:19
-	80	(channel\$lgain channel adj gain) same (disabl\$4 updat\$4)	USPAT	2003/10/28 15:42
-	33	(channel\$lgain channel adj gain) with (disabl\$4 updat\$4)	USPAT	2003/10/28 16:05
-	0	(channel\$lgain channel adj gain adj estimat\$3) with (disabl\$4 updat\$4)	USPAT	2003/10/28 16:05
-	8	(channel\$lgain channel adj gain adj estimat\$3) same (disabl\$4 updat\$4)	USPAT	2003/10/28 16:14
-	45	(ERL ERLE channel\$lgain channel adj gain adj estimat\$3) same (disabl\$4 updat\$4)	USPAT	2003/10/28 16:15
-	24	(ERL ERLE channel\$lgain channel adj gain adj estimat\$3) with (disabl\$4 updat\$4)	USPAT	2003/10/29 08:37